

09/17/96

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Terms	Documents
APC\$ adj10 RNA\$	10

Database:

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 JPO Abstracts Database
 EPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

APC\$ adj10 RNA\$

Refine Search:

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Search History

Today's Date: 2/14/2001

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,JPAB,EPAB,DWPI,TDBD	APC\$ adj10 RNA\$	10	<u>L9</u>
USPT,JPAB,EPAB,DWPI,TDBD	"antigen presenting cell\$" adj10 RNA\$	2	<u>L8</u>
USPT,JPAB,EPAB,DWPI,TDBD	"antigen presenting cell\$" adj5 RNA\$	2	<u>L7</u>
USPT,JPAB,EPAB,DWPI,TDBD	"antigen presenting cell\$" adj 5 RNA\$	40995	<u>L6</u>
USPT,JPAB,EPAB,DWPI,TDBD	"RNA-loaded antigen presenting cell\$"	3	<u>L5</u>
USPT,JPAB,EPAB,DWPI,TDBD	13 and epitope\$ and "T cell proliferation\$"	212	<u>L4</u>
USPT,JPAB,EPAB,DWPI,TDBD	12 and tumor\$	1389	<u>L3</u>
USPT,JPAB,EPAB,DWPI,TDBD	APC or "antigen presenting cell\$" or "RNA-loaded antigen presenting cell\$"	6347	<u>L2</u>
USPT,JPAB,EPAB,DWPI,TDBD	5853719 [pn]	2	<u>L1</u>

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Terms	Documents
"antigen presenting cell\$" adj10 RNA\$	2

Database:

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[IBM Technical Disclosure Bulletins](#)

Refine Search:

"antigen presenting cell\$" adj10 RNA\$

[Clear](#)**Search History****Today's Date: 2/14/2001**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,JPAB,EPAB,DWPI,TDBD	"antigen presenting cell\$" adj10 RNA\$	2	L8
USPT,JPAB,EPAB,DWPI,TDBD	"antigen presenting cell\$" adj5 RNA\$	2	L7
USPT,JPAB,EPAB,DWPI,TDBD	"antigen presenting cell\$" adj 5 RNA\$	40995	L6
USPT,JPAB,EPAB,DWPI,TDBD	"RNA-loaded antigen presenting cell\$"	3	L5
USPT,JPAB,EPAB,DWPI,TDBD	l3 and epitope\$ and "T cell proliferation\$"	212	L4
USPT,JPAB,EPAB,DWPI,TDBD	l2 and tumor\$	1389	L3
USPT,JPAB,EPAB,DWPI,TDBD	APC or "antigen presenting cell\$" or "RNA-loaded antigen presenting cell\$"	6347	L2
USPT,JPAB,EPAB,DWPI,TDBD	5853719 [pn]	2	L1

WEST

Generate Collection

Search Results - Record(s) 1 through 2 of 2 returned.☐ 1. Document ID: US 5853719 A

L8: Entry 1 of 2

File: USPT

Dec 29, 1998

US-PAT-NO: 5853719

DOCUMENT-IDENTIFIER: US 5853719 A

TITLE: Methods for treating cancers and pathogen infections
using antigen-presenting cells loaded with RNA

DATE-ISSUED: December 29, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nair; Smita K.	Durham	NC	N/A	N/A
Boczkowski; David J.	Durham	NC	N/A	N/A
Gilboa; Eli	Durham	NC	N/A	N/A

US-CL-CURRENT: 424/93.21; 435/69.3, 435/7.21, 435/7.23,
435/7.24

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: WO 9741210 A1

L8: Entry 2 of 2

File: EPAB

Nov 6, 1997

PUB-NO: WO009741210A1

DOCUMENT-IDENTIFIER: WO 9741210 A1

TITLE: METHODS FOR TREATING CANCERS AND PATHOGEN INFECTIONS
USING ANTIGEN-PRESENTING CELLS LOADED WITH RNA

PUBN-DATE: November 6, 1997

INVENTOR-INFORMATION:

NAME	COUNTRY
NAIR, SMITA K	US
BOCZKOWSKI, DAVID J	US
GILBOA, ELI	US

INT-CL (IPC): C12N 5/10; C12N 15/87; C12N 15/88

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Terms	Documents
"antigen presenting cell\$" adj10 RNAS	2

Display

100

Documents, starting with Document:

2

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WEST**Generate Collection****Search Results - Record(s) 1 through 3 of 3 returned.**☐ 1. Document ID: US 5853719 A

L5: Entry 1 of 3

File: USPT

Dec 29, 1998

US-PAT-NO: 5853719

DOCUMENT-IDENTIFIER: US 5853719 A

TITLE: Methods for treating cancers and pathogen infections
using antigen-presenting cells loaded with RNA

DATE-ISSUED: December 29, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nair; Smita K.	Durham	NC	N/A	N/A
Boczkowski; David J.	Durham	NC	N/A	N/A
Gilboa; Eli	Durham	NC	N/A	N/A

US-CL-CURRENT: 424/93.21; 435/69.3, 435/7.21, 435/7.23,
435/7.24

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	------------	-------

☐ 2. Document ID: WO 9741210 A1

L5: Entry 2 of 3

File: EPAB

Nov 6, 1997

PUB-NO: WO009741210A1

DOCUMENT-IDENTIFIER: WO 9741210 A1

TITLE: METHODS FOR TREATING CANCERS AND PATHOGEN INFECTIONS
USING ANTIGEN-PRESENTING CELLS LOADED WITH RNA

PUBN-DATE: November 6, 1997

INVENTOR-INFORMATION:

NAME	COUNTRY
NAIR, SMITA K	US
BOCZKOWSKI, DAVID J	US
GILBOA, ELI	US

INT-CL (IPC): C12N 5/10; C12N 15/87; C12N 15/88

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: AU 724267 B, WO 9741210 A1, AU 9728213 A, US 5853719 A, EP 918848 A1, JP 2000509281 W

L5: Entry 3 of 3

File: DWPI

Sep 14, 2000

DERWENT-ACC-NO: 1997-549715

DERWENT-WEEK: 200051

COPYRIGHT 2001 DERWENT INFORMATION LTD

TITLE: Use of RNA-loaded antigen presenting cells - to induce T-cell proliferation for the treatment or prevention of tumour formation or pathogen infection

INVENTOR: BOCZKOWSKI, D J; GILBOA, E ; NAIR, S K

PRIORITY-DATA: 1996US-0640444 (April 30, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 724267 B	September 14, 2000	N/A	000	C12N005/10
WO 9741210 A1	November 6, 1997	E	047	C12N005/10
AU 9728213 A	November 19, 1997	N/A	000	C12N005/10
US 5853719 A	December 29, 1998	N/A	000	A01N063/00
EP 918848 A1	June 2, 1999	E	000	C12N005/10
JP 2000509281 W	July 25, 2000	N/A	039	C12N015/09

INT-CL (IPC): A01N 63/00; A61K 31/70; A61K 35/56; A61K 39/00; A61K 48/00; A61P 35/00; C12N 5/10; C12N 15/09; C12N 15/87 ; C12N 15/88; C12Q 1/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Terms	Documents
"RNA-loaded antigen presenting cell\$"	3

Display

100 Documents, starting with Document:

3

Display Format:

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Day :
Wednesday
Date:
2/14/2001
Time:
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Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.
Additionally, enter the **first few letters** of the Inventor's First name.

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Inventor Name Search

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First Name

boczowski	david j	Search
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HILIGHT set on as ''

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? begin 5,6,55,154,155,156,312,399,biotech,biosci

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L1: Entry 1 of 2

File: USPT

Dec 29, 1998

US-PAT-NO: 5853719

DOCUMENT-IDENTIFIER: US 5853719 A

TITLE: Methods for treating cancers and pathogen infections
using antigen-presenting cells loaded with RNA

DATE-ISSUED: December 29, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nair; Smita K.	Durham	NC	N/A	N/A
Boczkowski; David J.	Durham	NC	N/A	N/A
Gilboa; Eli	Durham	NC	N/A	N/A

US-CL-CURRENT: 424/93.21; 435/69.3, 435/7.21, 435/7.23,
435/7.24

CLAIMS:

What is claimed is:

1. A method for producing an RNA-loaded antigen presenting cell (APC) that presents on its surface a tumor antigenic epitope encoded by the RNA, wherein the epitope induces T cell proliferation, said method comprising:
introducing into an antigen-presenting cell in vitro RNA obtained from a tumor comprising tumor-specific RNA that encodes an antigen that induces T cell proliferation and tumor immunity thereby producing an RNA-loaded APC that presents on its surface a tumor antigenic epitope encoded by the RNA, wherein the epitope induces T cell proliferation.
2. The method of claim 1, wherein said APC is a dendritic cell.
3. The method of claim 1, wherein said APC is a macrophage.
4. The method of claim 1, wherein said APC is an endothelial cell.
5. The method of claim 1, wherein said APC is an artificially generated APC.
6. The method of claim 1, wherein said RNA comprises poly A.sup.+ RNA.
7. The method of claim 1, wherein said RNA comprises cytoplasmic RNA.
8. The method of claim 1, wherein said RNA is tumor-specific RNA.
9. The method of claim 1, wherein the RNA is introduced into the APC by contacting the APC with the RNA in the presence of a

cationic lipid.

10. The RNA-loaded APC produced by the method of claim 1.
11. The method of claim 1, wherein the RNA is obtained from a melanoma.
12. The method of claim 1, wherein the RNA is obtained from a bladder tumor.
13. The method of claim 1, wherein the tumor-derived RNA is derived from a tumor selected from the group consisting of breast cancer tumors, colon cancer tumors, prostate cancer tumors, and ovarian cancer tumors.
14. The method of claim 1, wherein said RNA is isolated from a cell.
15. The method of claim 1, wherein said RNA is prepared by in vitro amplification and transcription.
16. The method of claim 1, wherein said RNA comprises nuclear RNA.
17. The method of claim 1 wherein said RNA comprises a minigene.

Set Items Description
--- -----
? s APC or antigen presenting cell?

47622 APC
8203 ANTIGEN PRESENTING CELL?
S1 53904 APC OR ANTIGEN PRESENTING CELL?
? s s1 and tumor? and epitope\$

Processed 10 of 37 files ...
Processing
Completed processing all files
53904 S1
3929771 TUMOR?
0 EPITOPES\$
S2 0 S1 AND TUMOR? AND EPITOPES\$
? s s1 and tumor? and epitope?

Processed 10 of 37 files ...
Processing
Completed processing all files
53904 S1
3929771 TUMOR?
329633 EPITOPE?
S3 433 S1 AND TUMOR? AND EPITOPE?
? s s3 and RNA?

433 S3
2126235 RNA?
S4 24 S3 AND RNA?
? rd s4

...completed examining records
S5 15 RD S4 (unique items)
? d s5/3/1-15

Display 5/3/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2001 BIOSIS. All rts. reserv.

11826610 BIOSIS NO.: 199900072719
Methods for treating cancers and pathogen infections using
antigen-presenting cells loaded with RNA.
AUTHOR: Nair S K; Boczkowski D J; Gilboa E
AUTHOR ADDRESS: Durham, N.C.**USA
JOURNAL: Official Gazette of the United States Patent and Trademark Office
Patents 1217 (5):p4064 Dec. 29, 1998
ISSN: 0098-1133
RECORD TYPE: Citation
LANGUAGE: English

- end of record -

?

Display 5/3/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2001 BIOSIS. All rts. reserv.

11311807 BIOSIS NO.: 199800093139

Novel protein isoforms of the APC tumor suppressor in neural tissue.

AUTHOR: Pyles Richard B(a); Santoro Irma M; Groden Joanna; Parysek Linda M
AUTHOR ADDRESS: (a)Child. Hosp. Res. Found., 3333 Burnet Ave., Cincinnati,
OH 45229-3039**USA
JOURNAL: Oncogene 16 (1):p77-82 Jan. 8, 1998
ISSN: 0950-9232
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

- end of record -

?

Display 5/3/3 (Item 1 from file: 154)
DIALOG(R)File 154:MEDLINE(R)
(c) format only 2000 Dialog Corporation. All rts. reserv.

09456228 98189763

Discoordinate surface expression of IFN-gamma-induced HLA class II proteins in nonprofessional antigen-presenting cells with absence of DM and class II colocalization.

Muczynski KA; Anderson SK; Pious D
Department of Pediatrics, University of Washington, Seattle 98195, USA.
Journal of immunology (UNITED STATES) Apr 1 1998, 160 (7) p3207-16,
ISSN 0022-1767 Journal Code: IFB
Contract/Grant No.: K1AI01150, AI, NIAID; R37AI16689, AI, NIAID;
R01AI30527, AI, NIAID
Languages: ENGLISH
Document type: JOURNAL ARTICLE

- end of record -

?

Display 5/3/4 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2001 Inst for Sci Info. All rts. reserv.

06180064 Genuine Article#: XZ994 No. References: 76

Title: Nuclear localization of RelB is associated with effective antigen-presenting cell function

Author(s): Pettit AR; Quinn C; MacDonald KPA; Cavanagh LL; Thomas G; Townsend W; Handel M; Thomas R (REPRINT)

Corporate Source: UNIV QUEENSLAND, PRINCESS ALEXANDRA HOSP, DEPT MED, CTR IMMUNOL & CANC RES/BRISBANE/QLD 4102/AUSTRALIA/ (REPRINT); UNIV QUEENSLAND, PRINCESS ALEXANDRA HOSP, DEPT MED, CTR IMMUNOL & CANC RES/BRISBANE/QLD 4102/AUSTRALIA/; UNIV NEW S WALES, ST VINCENTS HOSP/SYDNEY/NSW/AUSTRALIA/

Journal: JOURNAL OF IMMUNOLOGY, 1997, V159, N8 (OCT 15), P3681-3691

ISSN: 0022-1767 Publication date: 19971015

Publisher: AMER ASSOC IMMUNOLOGISTS, 9650 ROCKVILLE PIKE, BETHESDA, MD 20814

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

- end of record -

?

Display 5/3/5 (Item 2 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2001 Inst for Sci Info. All rts. reserv.

05952116 Genuine Article#: XJ674 No. References: 41

Title: Interleukin-10 prevents dendritic cell accumulation and vaccination with granulocyte-macrophage colony-stimulating factor gene-modified tumor cells

Author(s): Qin ZH (REPRINT) ; Noffz G; Mohaupt M; Blankenstein T

Corporate Source: MAX DELBRUCK CTR MOL MED, ROBERT ROSS STR 10/D-13122
BERLIN//GERMANY//REPRINT)
Journal: JOURNAL OF IMMUNOLOGY, 1997, V159, N2 (JUL 15), P770-776
ISSN: 0022-1767 Publication date: 19970715
Publisher: AMER ASSOC IMMUNOLOGISTS, 9650 ROCKVILLE PIKE, BETHESDA, MD
20814
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

- end of record -

?

Display 5/3/6 (Item 3 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2001 Inst for Sci Info. All rts. reserv.

05553822 Genuine Article#: WG261 No. References: 39
Title: Human sunlight-induced basal-cell-carcinoma-associated dendritic
cells are deficient in T cell co-stimulatory molecules and are impaired
as antigen-presenting cells
Author(s): Nestle FO; Burg G; Fah J; WronaSmith T; Nickoloff BJ (REPRINT)
Corporate Source: LOYOLA UNIV, SCH MED, DEPT PATHOL, CARDINAL BERNARDIN CANC
CTR, SKIN CANC RES LABS, ROOM/MAYWOOD//IL/60153 (REPRINT); LOYOLA
UNIV, SCH MED, DEPT PATHOL, CARDINAL BERNARDIN CANC CTR, SKIN CANC RES
LABS/MAYWOOD//IL/60153; UNIV ZURICH, SCH MED, DEPT
DERMATOL/ZURICH//SWITZERLAND/
Journal: AMERICAN JOURNAL OF PATHOLOGY, 1997, V150, N2 (FEB), P641-651
ISSN: 0002-9440 Publication date: 19970200
Publisher: AMER SOC INVESTIGATIVE PATHOLOGY, INC, 428 EAST PRESTON ST,
BALTIMORE, MD 21202-3993
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

- end of record -

?

Display 5/3/7 (Item 1 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2001 Elsevier Science B.V. All rts. reserv.

10986611 EMBASE No: 2001030271
Counter-regulation of cytolytic activity and cytokine production in
HIV-1-specific murine CD8⁺ cytotoxic T lymphocytes by free antigenic
peptide
Takahashi M.; Nakagawa Y.; Berzofsky J.A.; Takahashi H.
H. Takahashi, Dept. of Microbiology/Immunology, Nippon Medical School,
1-1-5 Sendagi, Bunkyo-ku, Tokyo 113-8602 Japan
International Immunology (INT. IMMUNOL.) (United Kingdom) 2001, 13/1
(43-51)
CODEN: INIME ISSN: 0953-8178
DOCUMENT TYPE: Journal ; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 33

- end of record -

?

Display 5/3/8 (Item 2 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2001 Elsevier Science B.V. All rts. reserv.

10888292 EMBASE No: 2000344574
Activation, stimulation and uptake of bacterial ghosts in antigen
presenting cells
Haslberger A.G.; Kohl G.; Felnerova D.; Mayr U.B.; Furst-Ladani S.;
Lubitz W.
A.G. Haslberger, Inst. of Microbiology and Genetics, University of
Vienna, Biocenter, Dr Bohrgasse 9, A-1030 Vienna Austria

Journal of Biotechnology (J. BIOTECHNOL.) (Netherlands) 29 SEP 2000,
83/1-2 (57-66)
CODEN: JBITD ISSN: 0168-1656
PUBLISHER ITEM IDENTIFIER: S0168165600002984
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 32

- end of record -

?

Display 5/3/9 (Item 3 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2001 Elsevier Science B.V. All rts. reserv.

10815371 EMBASE No: 2000295017

Differential splicing of antigen-encoding **RNA** reduces endogenous
epitope presentation that regulates the expansion and cytotoxicity of
T cells

Kienzle N.; Buck M.; Silins S.L.; Burrows S.R.; Moss D.J.; Winterhalter
A.; Brooks A.; Khanna R.

Dr. N. Kienzle, Queensland Inst. of Medical Research, Royal Brisbane
Hospital, Brisbane, QLD 4029 Australia

AUTHOR EMAIL: norbertK@qimr.edu.au

Journal of Immunology (J. IMMUNOL.) (United States) 15 AUG 2000, 165/4
(1840-1846)

CODEN: JOIMA ISSN: 0022-1767

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 32

- end of record -

?

Display 5/3/10 (Item 4 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2001 Elsevier Science B.V. All rts. reserv.

06510875 EMBASE No: 1996171208

Expression of neurofilaments and of a titin **epitope** in thymic
epithelial **tumors**: Implications for the pathogenesis of myasthenia
gravis

Marx A.; Wilisch A.; Schultz A.; Greiner A.; Magi B.; Pallini V.; Schalke
B.; Toyka K.; Nix W.; Kirchner T.; Muller-Hermelink H.-K.

Institute of Pathology, University of Wurzburg, Josef-Schneider-Strasse
2,D-97080 Wurzburg Germany

American Journal of Pathology (AM. J. PATHOL.) (United States) 1996,
148/6 (1839-1850)

CODEN: AJPAA ISSN: 0002-9440

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

- end of record -

?

Display 5/3/11 (Item 5 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2001 Elsevier Science B.V. All rts. reserv.

06247726 EMBASE No: 1995276251

Early events in contact sensitivity

Katz S.I.; Aiba S.; Cavani A.; Enk A.H.

Dermatology Department, National Cancer Institute, Uniformed Svcs. Univ.
of Health Sci., Bethesda, MD United States

Advances in Experimental Medicine and Biology (ADV. EXP. MED. BIOL.) (United States) 1995, 378/- (497-500)

- end of record -

?

Display 5/3/12 (Item 1 from file: 98)
DIALOG(R)File 98:General Sci Abs/Full-Text
(c) 2001 The HW Wilson Co. All rts. reserv.

04045919 H.W. WILSON RECORD NUMBER: BGSA99045919 (USE FORMAT 7 FOR FULLTEXT)

The 26S proteasome: a molecular machine designed for controlled proteolysis.

Voges, D

Zwickl, P; Baumeister, W

Annual Review of Biochemistry v. 68 (1999) p. 1015-68

SPECIAL FEATURES: bibl il ISSN: 0066-4154

LANGUAGE: English

COUNTRY OF PUBLICATION: United States

WORD COUNT: 23782

- end of record -

?

Display 5/3/13 (Item 1 from file: 370)
DIALOG(R)File 370:Science
(c) 1999 AAAS. All rts. reserv.

00505929 (USE 9 FOR FULLTEXT)

Functional Interaction of an Axin Homolog, Conductin, with (beta)

-Catenin, APC, and GSK3 (beta)

Behrens, Juergen; Jerchow, Boris-Alexander; Wuertele, Martin; Grimm, Jan;
Asbrand, Christian; Wirtz, Ralph; Kuehl, Michael; Wedlich, Doris;
Birchmeier, Walter

J. Behrens, B.-A. Jerchow, M. Wuertele, J. Grimm, C. Asbrand, R. Wirtz, W.
Birchmeier, Max Delbrueck Center for Molecular Medicine,
Robert-Rossle-Strasse 10, 13122 Berlin, Germany. ; M. Kuehl and D.

Wedlich, University of Ulm, Albert-Einstein-Allee 11, 89081 Ulm, Germany.
Science Vol. 280 5363 pp. 596

Publication Date: 4-24-1998 (980424) Publication Year: 1998

Document Type: Journal ISSN: 0036-8075

Language: English

Section Heading: Reports

Word Count: 1923

- end of record -

?

Display 5/3/14 (Item 2 from file: 370)
DIALOG(R)File 370:Science
(c) 1999 AAAS. All rts. reserv.

00501216 (USE 9 FOR FULLTEXT)

Stabilization of (beta) -Catenin by Genetic Defects in Melanoma Cell Lines

Rubinfeld, Bonnee; Robbins, Paul; El-Gamil, Mona; Albert, Iris; Porfiri,
Emilio; Polakis, Paul

B. Rubinfeld, I. Albert, E. Porfiri, P. Polakis, Onyx Pharmaceuticals, 3031
Research Drive, Richmond, CA 94806, USA. ; P. Robbins and M. El-Gamil,
Surgery Branch, National Cancer Institute, National Institutes of Health,
Bethesda, MD 20892, USA.

Science Vol. 275 5307 pp. 1790

Publication Date: 3-21-1997 (970321) Publication Year: 1997

Document Type: Journal ISSN: 0036-8075

Language: English
Section Heading: Reports
Word Count: 2269

- end of record -

?

Display 5/3/15 (Item 3 from file: 370)
DIALOG(R)File 370:Science
(c) 1999 AAAS. All rights reserved.

00501214 (USE 9 FOR FULLTEXT)
Constitutive Transcriptional Activation by a (beta) -Catenin-Tcf Complex
in APC.sup(-/-) Colon Carcinoma
Korinek, Vladimir; Barker, Nick; Morin, Patrice J.; van Wichen, Dick; de
Weger, Roel; Kinzler, Kenneth W.; Vogelstein, Bert; Clevers, Hans
V. Korinek, N. Barker, H. Clevers, Department of Immunology, University
Hospital, Post Office Box 85500, 3508 GA Utrecht, Netherlands. ; P. J.
Morin and B. Vogelstein, Howard Hughes Medical Institute, Johns Hopkins
Oncology Center, 424 North Bond Street, Baltimore, MD 21231, USA. ; D.
van Wichen and R. de Weger, Department of Pathology, University Hospital,
3508 GA Utrecht, Netherlands. ; K. W. Kinzler, Johns Hopkins Oncology
Center, 424 North Bond Street, Baltimore, MD 21231, USA.
Science Vol. 275 5307 pp. 1784
Publication Date: 3-21-1997 (970321) Publication Year: 1997
Document Type: Journal ISSN: 0036-8075
Language: English

-more-

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DIALOG(R)File 370:Science
(c) 1999 AAAS. All rights reserved.
Section Heading: Reports
Word Count: 1790

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Display 5/9/9 (Item 3 from file: 73)
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10815371 EMBASE No: 2000295017
Differential splicing of antigen-encoding **RNA** reduces endogenous
epitope presentation that regulates the expansion and cytotoxicity of
T cells
Kienzle N.; Buck M.; Silins S.L.; Burrows S.R.; Moss D.J.; Winterhalter
A.; Brooks A.; Khanna R.
Dr. N. Kienzle, Queensland Inst. of Medical Research, Royal Brisbane
Hospital, Brisbane, QLD 4029 Australia
AUTHOR EMAIL: norbertK@qimr.edu.au
Journal of Immunology (J. IMMUNOL.) (United States) 15 AUG 2000, 165/4
(1840-1846)
CODEN: JOIMA ISSN: 0022-1767
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 32

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The activation of CTLs is dependent on the recognition of MHC-bound peptide present on the surface of APCs. We give evidence in this study that differential splicing of Ag-encoding **RNA** can decrease the antigenic dose in APCs and regulate the recall of human memory CTLs. Differential splicing of **RNA** that encoded an immunodominant HLA-B8-restricted CTL **epitope** of EBV reduced the functional presentation of this **epitope**, and consequently the in vitro expansion and activity of CTLs, as measured by MHC/peptide-tetramer staining and cytotoxicity assays. The reduced activity of the stimulated CTLs was not only due to lower numbers of Ag-specific CTLs but, surprisingly, was also characterized by decreased cytotoxicity of the CTLs to target cells presenting limiting amounts of the peptide **epitope**. As indicated by TCR repertoire analysis, the reduction in CTL activity was not caused by stimulation of distinct populations of TCR clonotypes. This study demonstrates how a common eukaryotic posttranscriptional mechanism of gene regulation can modulate the endogenous presentation of Ag and ultimately contribute to the fine tuning of immunological memory cells, which are important in the fight

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against pathogens and **tumors** and in autoimmunity.

DRUG DESCRIPTORS:

***RNA**--endogenous compound--ec; ***epitope**--endogenous compound
--ec; *HLA B8 antigen--endogenous compound--ec
T lymphocyte receptor--endogenous compound--ec

MEDICAL DESCRIPTORS:

***RNA** splicing; *cytotoxic T lymphocyte; ***antigen presenting cell**
major histocompatibility complex; gene control; immunological memory;
Epstein Barr virus; flow cytometry; human; controlled study; human cell;
article; priority journal
CAS REGISTRY NO.: 63231-63-0 (**RNA**)

SECTION HEADINGS:

026 Immunology, Serology and Transplantation
029 Clinical and Experimental Biochemistry

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Discoordinate surface expression of IFN-gamma-induced HLA class II proteins in nonprofessional antigen-presenting cells with absence of DM and class II colocalization.

Muczynski KA; Anderson SK; Pious D
Department of Pediatrics, University of Washington, Seattle 98195, USA.
Journal of immunology (UNITED STATES) Apr 1 1998, 160 (7) p3207-16,
ISSN 0022-1767 Journal Code: IFB
Contract/Grant No.: K1AI01150, AI, NIAID; R37AI16689, AI, NIAID;
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Languages: ENGLISH
Document type: JOURNAL ARTICLE
JOURNAL ANNOUNCEMENT: 9806
Subfile: AIM; INDEX MEDICUS
We compared HLA class II expression in a human melanoma line (a

nonprofessional APC) induced by IFN-gamma or by stable transfection

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with CIITA, with constitutive class II expression in an EBV-transformed B lymphoblastoid cell line (a professional APC) from the same donor. IFN-gamma-induced and CIITA-transfected melanoma cells expressed DR, DP, and DQ at levels similar to those expressed by the professional APC; however, DP and DQ proteins and DM-dependent DR epitopes were delayed in appearing on the cell surface when induced by IFN-gamma. The delay in cell surface expression of some IFN-gamma-induced class II epitopes was observed even though Northern blots demonstrated class II and DM genes to be coordinately transcribed and their mRNA levels to be equivalent to that in B lymphoblastoid cells. Confocal microscopy suggests that discoordinate cell surface expression of class II results from different intracellular trafficking for IFN-gamma-induced class II proteins in the melanoma line compared with that in professional APCs. Specifically, although DR and DM proteins were present 2 days after IFN-gamma induction, colocalization of DR and DM proteins intracellularly was not apparent in cells at any time after induction. Failure of DR and DM proteins to colocalize suggests that IFN-gamma-induced cells lack an intracellular

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MIIC-like compartment. The absence of a compartment containing DR and DM to facilitate interaction between the two proteins may account for the delayed surface expression of class II epitopes whose formation requires both class II and DM.
Tags: Human; Support, Non-U.S. Gov't; Support, U.S. Gov't, P.H.S.
Descriptors: *Antigen-Presenting Cells--Metabolism--ME; *HLA-D Antigens--Biosynthesis--BI; *HLA-D Antigens--Metabolism--ME; *Membrane Proteins--Biosynthesis--BI; Antigen Presentation--Genetics--GE; Antigen-Presenting Cells--Immunology--IM; B-Lymphocytes--Immunology--IM; B-Lymphocytes--Metabolism--ME; Cell Line; Cell Membrane--Immunology--IM; Cell Membrane--Metabolism--ME; Epitopes--Biosynthesis--BI; Fibroblasts; HLA-D Antigens--Genetics--GE; HLA-DP Antigens--Biosynthesis--BI; HLA-DQ Antigens--Biosynthesis--BI; HLA-DR Antigens--Biosynthesis--BI; Melanoma--Immunology--IM; Melanoma--Metabolism--ME; RNA, Messenger--Metabolism--ME; Trans-Activators--Genetics--GE; Transcription, Genetic--Immunology--IM; Tumor Cells, Cultured
CAS Registry No.: 0 (CIITA protein); 0 (Epitopes); 0 (HLA-D

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